

SAURADIP NAG

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Visualization & Perception Lab, Dept. of Computer Science & Engineering

Indian Institute of Technology, Madras, Chennai-600036

EDUCATION

Kalyani Government Engineering College, West Bengal *August 2014 - 2018*
Bachelor in Computer Science & Engineering. GPA: 8.26

Patha Bhavan, West Bengal *May 2011 - 2013*
Higher Secondary. GPA: 75%

Hartley's High School, West Bengal *May 1998 - 2011*
Secondary. GPA: 80%

EXPERIENCE

Project Associate(Research Assistant) *July 2018 - Present*
Topic: Scene Understanding on Intelligent Systems *IIT, Madras*
Supervisor: Prof. Sukhendu Das, Prof. B Ravindran, Prof. K Mitra

Undergraduate Research Intern *July 2016 - July 2018*
Topic: Scene Text Detection, Video Processing, Handwriting Recognition *ISI, Kolkata*
Supervisor: Prof. P Shivakumara, Prof. Umapada Pal

Computer Vision Intern *Jan 2018 - Mar 2018*
Topic: Advance Lane Detection on Indian Road *GISCLE Systems, Bangalore*
Technology: Python, Pandas, Tensorflow, Scipy, OpenCV

Software Developer Intern *Feb 2016 - July 2017*
Topic: Frontend/ Middleware Developer *Apnastudy Technologies, Kolkata*
Technology: Angular.js, Node.js, MongoDB, HTML, CSS, JS

PUBLICATIONS

A Deep Jersey-Bib Number/Text Recognition in Sports and Marathon Images *September, 2019*
S.Nag, R.Raghavendra, P.Shivakumara, U.Pal, T.Lu, M.Kankanhalli
15th IAPR International Conference on Document Analysis and Recognition(ICDAR)
DOI: Yet to Appear

What's There In The Dark *September, 2019*
S.Nag, S.Adak, S.Das
IEEE International Conference on Image Processing(ICIP)
DOI: 10.1109/ICIP.2019.8803299

**Facial Micro-expression Spotting And Recognition using Time
Contrasted Feature with Visual Memory**

May, 2019

S.Nag, A.K.Bhunja, A.Konwer, P.P.Roy

IEEE International Conference on Acoustics, Speech, and Signal Processing(ICASSP)

DOI: 10.1109/ICASSP.2019.8683737

**A New COLD Feature based Handwriting Analysis for
Ethnicity/Nationality Identification**

Aug, 2018

S.Nag, P.Shivakumara, Y.Wu, U.Pal, T.Lu

IAPR International Conference on Frontiers in Handwriting Recognition(ICFHR)

DOI: 10.1109/ICFHR-2018.2018.00097

**Offline Extraction of Indic Regional Language from Natural Scene
Image Using Text Segmentation and Deep Convolutional Sequence**

Jul, 2018

S.Nag, P.Ganguly, S.Roy, S.Jha, K.Bose, A.Jha, K.Dasgupta

Springer International Conference on Computational Intelligence, Communications,
and Business Analytics(CICBA)

DOI: 10.1007/978-981-13-2345-4₅

SUBMITTED PAPERS

**A New Unified Method for Text Detection in Marathon
and Sports Video**

Sept, 2018

S.Nag, P.Shivakumara, U.Pal, T.Lu, M.Blumenstein

Submitted in Pattern Recognition, Elsevier (**PR**)

SaLite : A light-weight model for saliency Detection

Sept, 2019

K. Varghese, S.Nag

Submitted in National Conference on Computer Vision, Pattern Recognition, Image Processing And
Graphics (NCVPRIPG)

FUTURE WORK

See, Hear and Separate

S.Nag, J.Ramaswamy

To be submitted in European Conference in Computer Vision(ECCV), 2020

Stereo Depth Estimation using Homography and Pose

K. Varghese, S.Nag

To be submitted in Computer Vision and Pattern Recognition Workshop (CVPRW), 2020

COURSES TAKEN

Undergraduate Level Courses

Kalyani Govt. Engg. College, India

Aug,2014-18

Discrete Mathematics, Data Structures and Algorithm , DBMS, Operating Systems, Artificial Intelligence, Computer Networks, Automata Theory, Compiler Theory.

Advanced Data Structures and Algorithm, Deep Learning in Computer Vision, Computer Vision, Convex Optimization for Computer Vision.

TECHNICAL SEMINARS

Visualization and Perception Lab(VP Lab) Seminar <i>Topic:</i> Recent Advances in Real-time Scene Segmentations	<i>IIT Madras</i>	<i>Feb, 2019</i>
Visualization and Perception Lab(VP Lab) Seminar <i>Topic:</i> On the work submitted in Pattern Recognition, Elsevier	<i>IIT Madras</i>	<i>Aug, 2018</i>
Visualization and Perception Lab(VP Lab) Seminar <i>Topic:</i> ORBSLAM2 : A Versatile and Accurate Monocular SLAM System	<i>IIT Madras</i>	<i>May, 2019</i>
Research Project (DRDO) Seminar <i>Topic:</i> Segmentation in Low-Light : What's There in the Dark (ICIP19)	<i>IIT Madras</i>	<i>Oct, 2019</i>

TECHNICAL SKILLS

Programming Languages	C, Python, MATLAB, Java, Javascript
Deep Learning Frameworks	Keras, Tensorflow, Pytorch
Other Packages	LaTex, VisualStudio, PyCharm

EXTRA-CURRICULAR

Got **91/120** in TOEFL exam taken on Nov 2019.

Got **7 band** in IELTS exam taken on June 2019.

Secured Global Rank of **2924** in Codechef October Long Challenge 2016 Coding Contest.

Secured Global Rank of **1803** in Codechef September Mega Cook Off 2015 Coding Contest.

Secured Global Rank of **71** in Rakuten Deep Learning Challenge.

Got Selected for Grand Finale of *Smart India Hackathon, 2018* under Dept. of Space, ISRO being the team leader

PERSONAL TRAITS

Fluent in English, Bengali, Hindi.

Strong motivational and leadership skills.

Ability to work as an individual as well as in group.

REFERENCES

- **Dr. Umapada Pal**
Professor and Head, Computer Vision and Pattern Recognition Unit
ISI, Kolkata
umapada@isical.ac.in
- **Dr. Koushik Dasgupta**
Assistant Professor, Computer Science and Information Technology
Kalyani Government Engineering College, Kalyani
kousik.dasgupta@kgec.edu.in